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- iii) an inner part rotatably attached to the outer frame for rotation about a second axis substantially parallel to a plane containing the outer frame and/or the base;
- iv) a first set of comb fingers attached to the inner part; and
- v) a second set of comb fingers attached to outer frame, wherein the first and second sets of comb fingers interdigitate in a substantially co-planar fashion at some rotation of the inner part relative to the outer frame about the second axis.

46. The switch of claim **45**, wherein the one or more arrays of mirrors individually steer light from the input optical fibers to the output optical fibers.

47. The switch of claim **45**, wherein the input optical fibers and output optical fibers are terminated with micro-lenses.

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48. The switch of claim **45**, wherein the inner part includes a mirror.

49. The switch of claim **45**, further comprising means for applying a voltage between the first and second set of comb fingers, whereby the first and second sets of comb fingers may act as a comb-drive actuator.

50. The switch of claim **45**, further comprising means for sensing a capacitance between the first and second comb fingers, whereby the first and second sets of comb fingers may act as a position sensor for sensing an angular position of the outer frame relative to the base.

51. The switch of claim **50**, further comprising means for applying a voltage between the first and second set of comb fingers, whereby the first and second sets of comb fingers may act as both a comb drive actuator and an angular position sensor.

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